

Source	Monitoring Requirement	Limit	Monitoring Results
<b>S-55 Boiler</b>	<p><b>Condition 20651</b></p> <p>2. Shall not operate S-55 boiler when more than two of the three cogen engines S-37, S-38, or S-39 are operating</p> <p>3. Boiler gross heat input</p> <p>5a. NOx emission from boiler 5b. CO emission from boiler</p> <p>18. Daily records of hours of operation, fuel consumption</p> <p>19. Annual performance test for emission limits in 5</p>	<p>20.41 MMBtu/hr</p> <p>30ppm 50ppm</p>	<p>Condition met. See Attachment 1 for boiler and engine data.</p> <p>Condition met. See Attachment 2. Heat input ranged from 10.4-13.3 MMBtu/hr.</p> <p>See 19 for test results if annual tests run in monitoring period</p> <p>See Attachment 1 for hours and gas consumption.</p> <p>Annual performance not done during this semiannual period. Last done Nov 2014.</p>
<b>S-37, S-38, S-39 Cogeneration Engines</b>	<p><b>Condition 20651</b></p> <p>Emission limits –</p> <p>6. NOx emissions from S-38 7. POC emissions from S-38 8. CO emissions from S-38 9. Filterable particulate emissions from S-38 10. NOx emissions from S-37 &amp; S-39 11. CO emissions from S-37 &amp; S-39</p> <p>13. Thermal throughput per engine</p>	<p>1.25 g/hp-hr 0.6 g/hp-hr 3.0 g/hp-hr 0.085 g/hp-hr</p> <p>70 ppmvd 2000 ppmvd</p> <p>25 MMBtu/hr</p>	<p>For items 6-11 see 19 for test results if annual tests run in monitoring period</p> <p>Condition met. See Attachment 2. Note: a new gas meter was installed and more accurate thermal throughput estimation methods were used starting in April 2015. Previously this was done using engine curves and energy produced.</p>

Source	Monitoring Requirement	Limit	Monitoring Results
<b>S-37, S-38, S-39 Cogeneration Engines (continued)</b>	14. Combined hours of operation for S-37, S-38, and S-39	25,316 hours in any rolling 365 day period	Condition met. 13,504 hours in last year. See Attachment 2. Jan-Jun 2015: 6,634 hours Jul-Dec 2014: 6,870 hours
	15. Combined diesel consumption for S-37, S-38, and S-39	150,000 gallons in any rolling 365 day period	Condition met. 21,780 gallons in last year. See Attachment 2. Jan-Jun 2015: 10,214 gallons Jul-Dec 2014: 11,566 gallons
	18. Daily records of hours of operation, fuel consumption		Condition met. See Attachment 1 for records.
	19. Annual performance test for emission limits in 6-11		Condition met for engines #1 and #2. See Attachment 3 for reports. Engine #3 was out of service from 1/11/15 to after 6/30/15 and no annual test was conducted due to the outage.
<b>S-48 Gasoline Dispensing Facility</b>	<b>Condition 25107</b>  The Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period.		Condition met. Completed on 9/17/14. Results were included in previous semiannual report.
	<b>Condition 21663</b>  Annual gasoline throughput	334,000 gal per year	Condition met. See Attachment 4. 1/1/15-6/30/15: 13,863 gal 7/1/14-12/31/14: 8,977 gal 7/1/14-6/30/15: 22,840 gal
<b>S-50 Diesel Engine Back-up Generator</b>	<b>Condition 22830</b>  1. Hours of operation	30 hours/year reliability-related hours	Condition met. Generator has not run in last 12 months. Refer to Attachment 5.
<b>S-51 Diesel Engine Back-up Generator</b>	<b>Condition 22850</b>  1. Hours of operation	50 hours/year reliability-related hours	Condition met. Last 12 months reliability-related use is 9.6 hours. Refer to Attachment 5 for current period.

Source	Monitoring Requirement	Limit	Monitoring Results
<b>S-52 Diesel Engine Back-up Generator</b>	<b>Condition 22820</b>  1. Hours of operation.	20 hours/year reliability-related hours	Condition met. Generator has not run in last 12 months. Refer to Attachment 5.
	<b>Condition 19184 (BAAQMD permit)</b>  2. Diesel fuel – sulfur content	<0.005% by weight	Condition met. All deliveries of diesel to Plant were CARB ULSD, 15ppm sulfur or less. See Attachment 6.
<b>S-53 Diesel Engine Back-up Generator</b>	<b>Condition 22830</b>  1. Hours of operation	30 hours/year reliability-related hours	Condition met. Generator has not run in last 12 months. Refer to Attachment 5 for current period.
<b>S-54 Diesel Engine Back-up Generator</b>	<b>Condition 22850</b>  1. Hours of operation	50 hours/year reliability-related hours	Condition met. Generator has not run in last 12 months. Refer to Attachment 5 for current period.
<b>S-56 Turbine</b>	<b>Condition 24050</b>  2. Total combined heat input	389,820 MMBtu in any 12-month period	Condition met. 357,805 MMBtu in last 12 months. Refer to Attachment 2. Jan-Jun 2015: 177,982 MMBtu Jul-Dec 2014: 179,823 MMBtu
	3. NOx emission limit 4. CO emission limit 5. SO2 emission limit  7. Annual turbine source test  8. Monthly NOx and CO test	23 ppm (15-min) 100 ppm (15-min) 150 ppmv	Emission limits met. Refer to reports for items 7 and 8.  Condition met. Turbine annual test done on 12/17/14 by Blue Sky Environmental. Results were in previous semiannual report.  Condition met. Monthly test results are located in Attachment 7.

Source	Monitoring Requirement	Limit	Monitoring Results
<b>S-100 Municipal Wastewater Treatment Plant</b>	<b>Condition 21759</b>  1. Total wastewater flow	120 MGD monthly dry weather average 325 MGD monthly wet weather average	Condition met. Maximum monthly flow in period was 63 MGD influent. See Attachment 8.
<b>S-110 Headworks  A-461 &amp; A-462 Carbon Bed Scrubbers</b>	<b>Condition 17335</b>  3. Inlet and outlet H2S concentrations of carbon beds, as well as any other appropriate operating parameters shall be continuously monitored and reviewed on a daily basis to determine when carbon adsorption bed breakthrough is imminent or has been reached.		Monitoring results for inlet and outlet H2S and any noted outages are in Attachment 9.  Maintenance records for scrubber are in Attachment 10.
<b>S-170 Sludge handling</b>	<b>Condition 18006</b>  1. Monitor and record on a daily basis the activated sewage sludge throughput through S-170.		Sludge throughput is recorded in Attachment 11. Maintenance records for the scrubber are in Attachment 10.
<b>S-180 Anaerobic Digesters</b>	<b>Condition 18860</b>  2. Monthly inspection of digesters  3. Sulfur content of digester gas  4. Weekly sampling and testing of digester gas for H2S  5. Hours of flaring per day	< 340 ppmv	Inspections conducted by Operations on daily rounds.  Condition met. Refer to Attachment 13 for the H2S gas sampling records.  Refer to Attachment 13.  Refer to Attachment 1 for the hours of flaring per day.

**Attachment Index:**

- 1 Combustion Source Air Permit Data
- 2 Combustion Summaries – Boiler, Engines, Turbine, Flares
- 3 Engine #1 and Engine #2 Annual Source Test Summaries
- 4 Gasoline Facility Throughput
- 5 Hours of Operation for Stand-by Emergency Generators
- 6 Diesel Deliveries with Sulfur Content Certifications
- 7 Turbine Monthly Test Results
- 8 Monthly Wastewater Summary January-June 2015
- 9 IPS Carbon Bed Inlet/Outlet H2S Readings
- 10 Odor Scrubber Maintenance Records for S-170 and S-110
- 11 Activated Sludge Throughput for S-170
- 12 Digester Gas H2S Sampling